

# Model 2029 Antenna Report

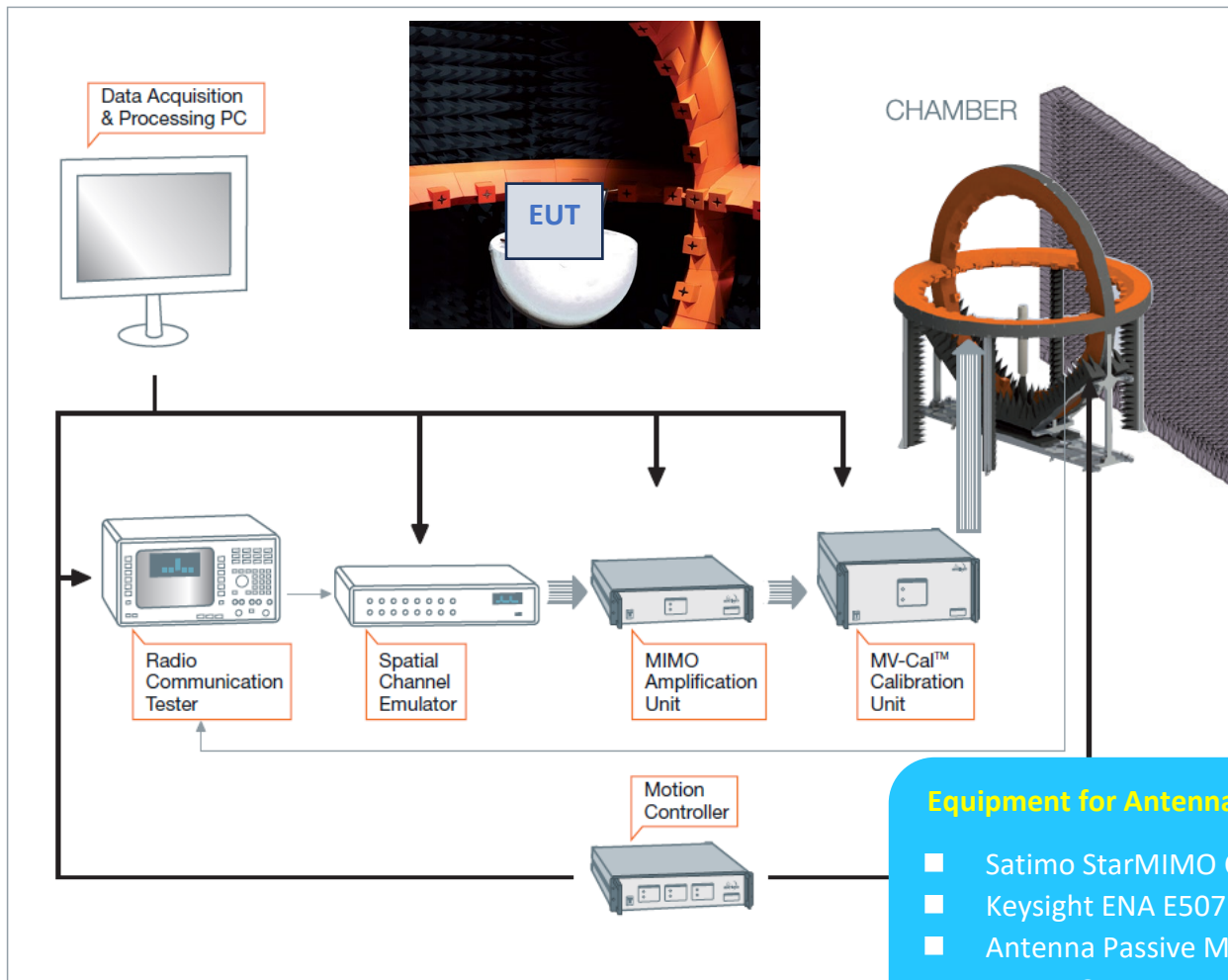
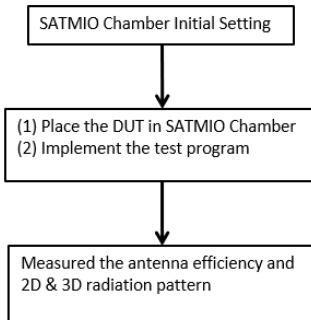
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## Applicable test methods and test setup

This test report is prepared for host antenna testing under a Full Anechoic Chamber (Satimo StarMIMO Chamber).

### Diagram

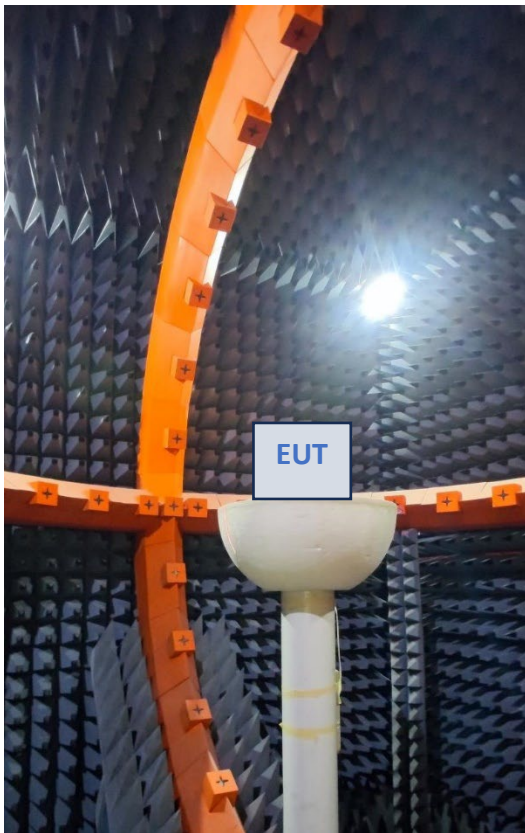


- Test Date: 2023/02/10
- Test Engineer: George Cho, Signature: *George Cho*

## Equipment list

Item	Equipment	Manufacturer	Model	Cal. Date	Cal. Due Date
1	SATIMO Chamber	MVG	StarMIMO	2023-01-30	2023-04-30
2	Network Analyzer	Keysight	E5071C	2022-09-30	2023-09-30

## Setup photos



## Antenna Information

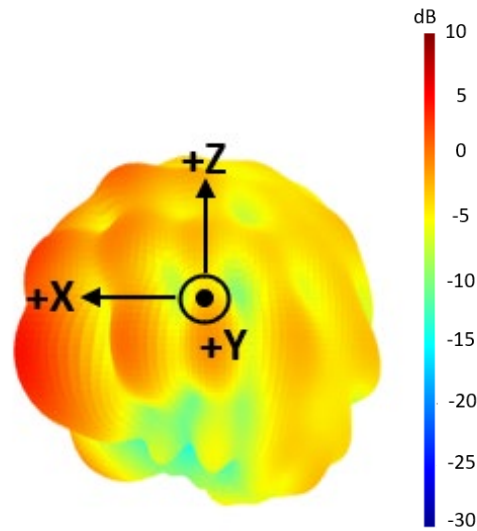
1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
<b>P/N:</b> <b>CNF965-16-000-R</b> <b>(1415-0A970QS)</b> <b>Main Antenna</b>	<b>Amphenol</b>  (Shanghai Amphenol Airwave Communication Electronics Co., Ltd)	<b>PIFA</b>	<b>Connector Type:</b> <b>PN: IPEX MHF4-L 20565-001R-13</b>  <b>Cable Type:</b> <b>PN: GBE 50 ohm coaxial cable</b> <b>length: 27.8mm</b> <b>diameter: 1.13mm</b>	2400-2483.5	4.77	5.03	3	0.26
				5150-5250	4.11	4.46	3	0.35
				5250-5350	5.43	5.80	3	0.37
				5470-5725	6.16	6.60	3	0.44
				5725-5850	5.85	6.31	3	0.46
				5850-5895	5.74	6.21	3	0.47
				5925-6425	6.92	7.46	3	0.54
				6425-6525	7.45	8.00	3	0.55
				6525-6875	7.45	8.01	3	0.56
6875-7125	5.10	5.67	3	0.57				
<b>P/N:</b> <b>CNF964-16-000-R</b> <b>(1415-0A980QS)</b> <b>Aux Antenna</b>	<b>Amphenol</b>  (Shanghai Amphenol Airwave Communication Electronics Co., Ltd)	<b>PIFA</b>	<b>Connector Type:</b> <b>PN: IPEX MHF4-L 20565-001R-13</b>  <b>Cable Type:</b> <b>PN: GBE 50 ohm coaxial cable</b> <b>length: 171.5mm</b> <b>diameter: 1.13mm</b>	2400-2483.5	4.57	5.18	3	0.61
				5150-5250	4.83	5.64	3	0.81
				5250-5350	5.23	6.09	3	0.86
				5470-5725	5.89	6.77	3	0.88
				5725-5850	6.02	6.91	3	0.89
				5850-5895	5.77	6.68	3	0.91
				5925-6425	7.02	7.98	3	0.96
				6425-6525	7.74	8.75	3	1.01
				6525-6875	7.74	8.77	3	1.03
6875-7125	4.59	5.69	3	1.10				

## Section 4. Radiation characteristics of antenna in Host Platform

### Main Antenna

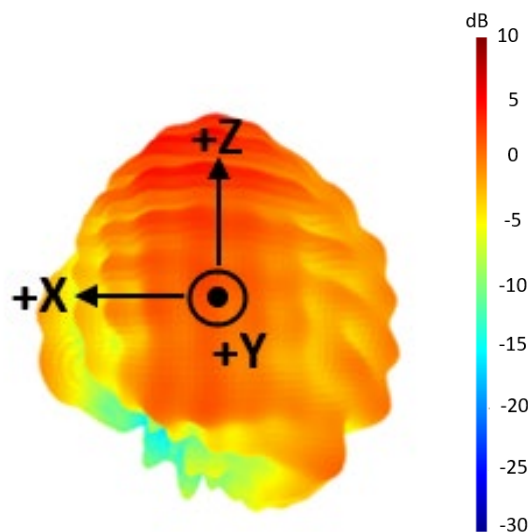
#### Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	4.77



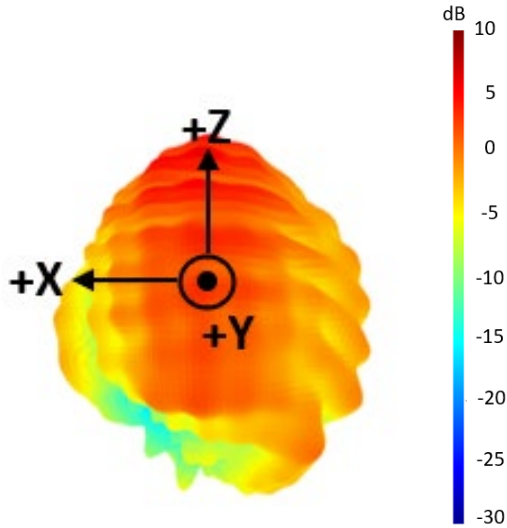
#### Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.11



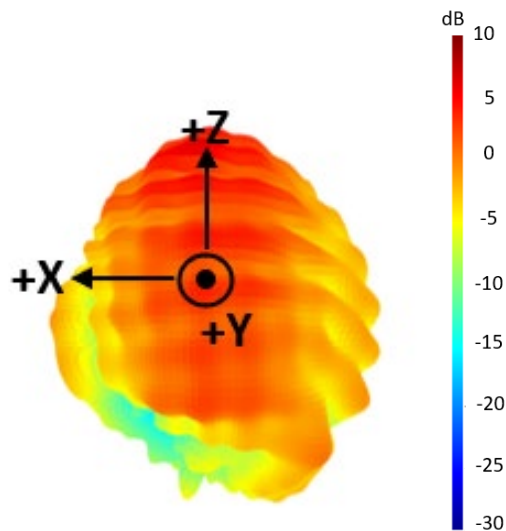
### Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	5.43



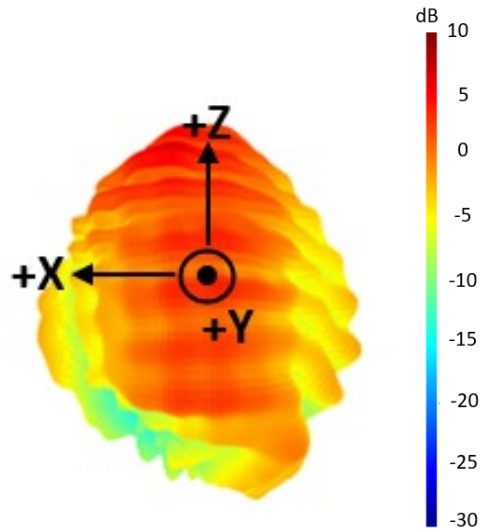
### Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	6.16



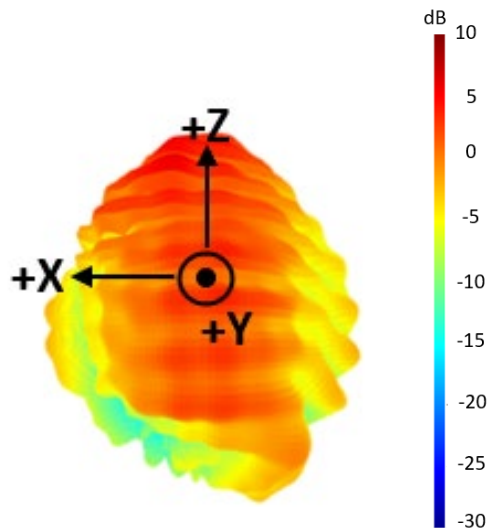
### Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	5.85



### Max Antenna 3D Radiation Pattern 5850-5895 MHz

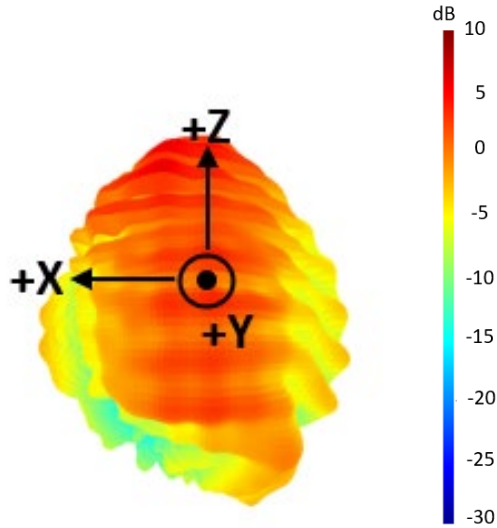
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	5.74



### Max Antenna 3D Radiation Pattern 5925-6425 MHz

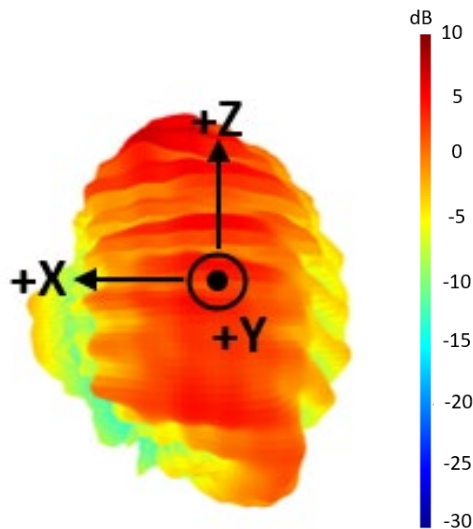
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	

<b>5925-6425</b>	<b>6.92</b>
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Max Antenna 3D Radiation Pattern 6425-6525 MHz

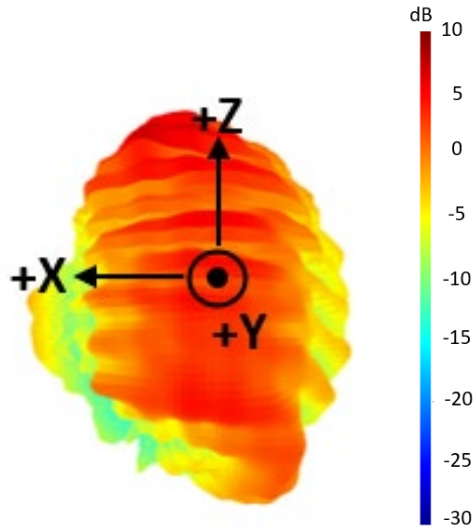
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
<b>6425-6525</b>	<b>7.45</b>



Max Antenna 3D Radiation Pattern 6525-6875 MHz

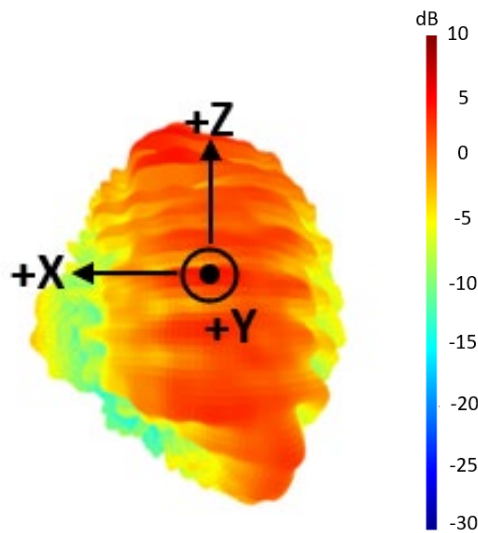
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
<b>6525-6875</b>	<b>7.45</b>





Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	5.10

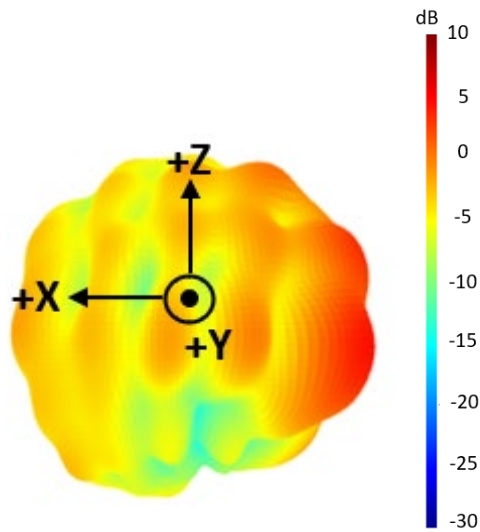


### Auxiliary Antenna

Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

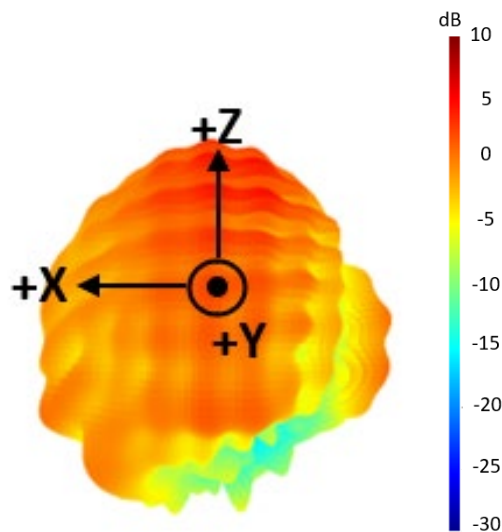
Frequency	Peak Gain w/ Cable Loss
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(MHz)	(dBi)
2400-2483.5	4.57



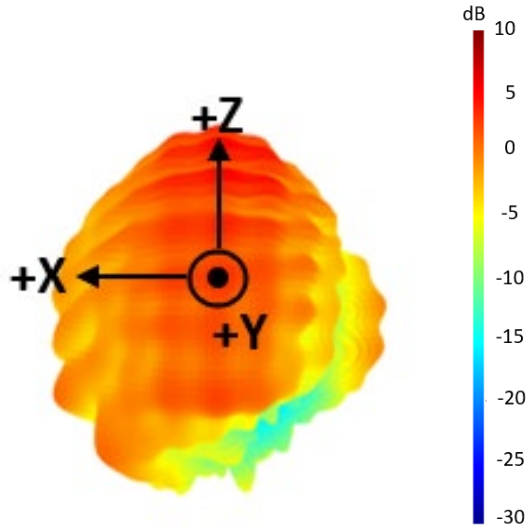
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	4.83



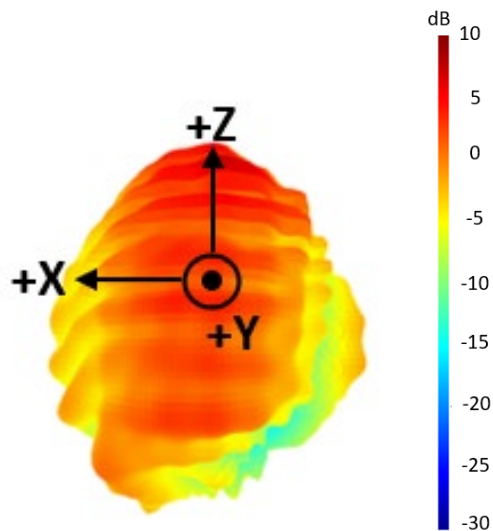
### Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	5.23



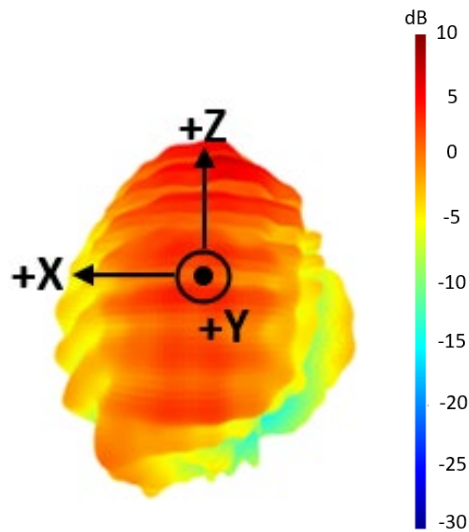
### Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	5.89



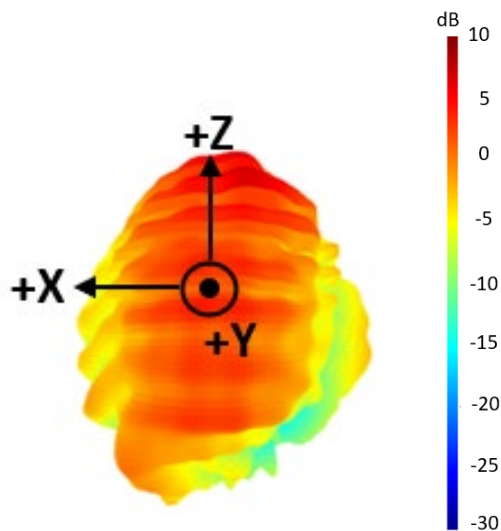
### Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	6.02



### Max Antenna 3D Radiation Pattern 5850-5895 MHz

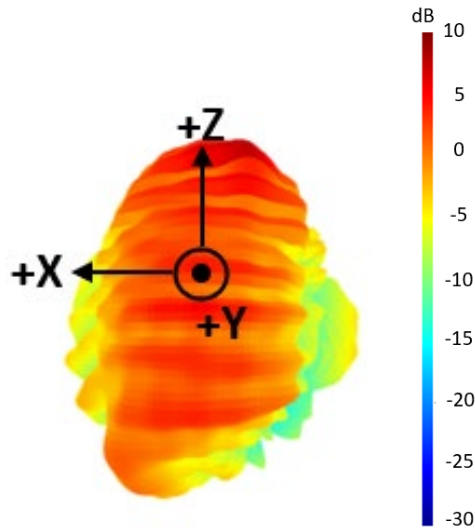
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	5.77



### Max Antenna 3D Radiation Pattern 5925-6425 MHz

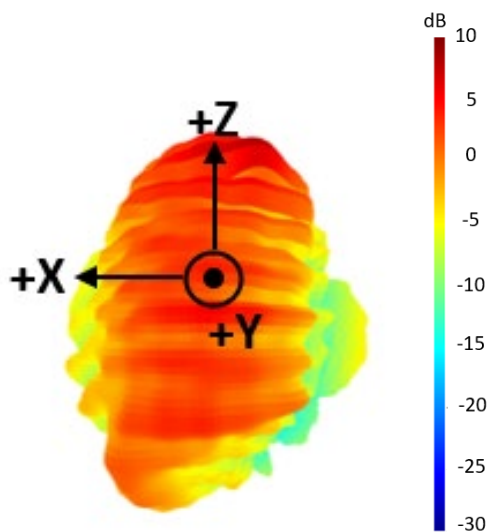
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	

<b>5925-6425</b>	<b>7.02</b>
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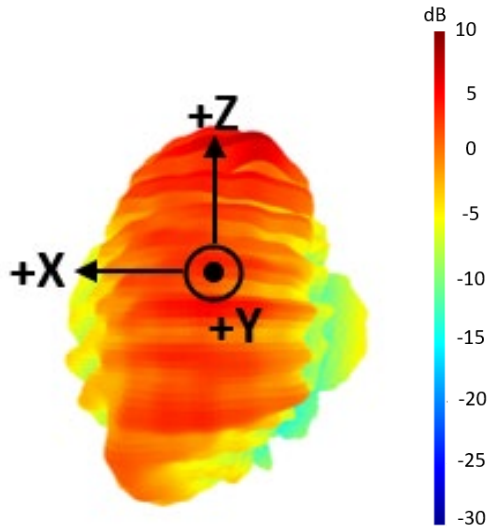
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
<b>6425-6525</b>	<b>7.74</b>



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
<b>6525-6875</b>	<b>7.74</b>



### Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	4.59

